

Below is an Electronic Version of an Out-of-Print Publication

You can scroll to view or print this publication here, or you can borrow a paper copy from the Texas State Library, 512/463-5455. You can also view a copy at the TCEQ Library, 512/239-0020, or borrow one through your branch library using interlibrary loan.

The TCEQ's current print publications are listed in our catalog at <http://www.tceq.texas.gov/publications/>.



AS-187/10
Revised January 2011

Municipal Solid Waste in Texas: A Year in Review

FY 2009 Data Summary and Analysis

Municipal Solid Waste in Texas: A Year in Review

FY 2009 Data Summary and Analysis

Prepared by
Waste Permits Division

AS-187/10
Revised January 2011



Bryan W. Shaw, Ph.D., *Chairman*
Buddy Garcia, *Commissioner*
Carlos Rubinstein, *Commissioner*

Mark R. Vickery, R.G., *Executive Director*

We authorize you to use or reproduce any original material contained in this publication—that is, any material we did not obtain from other sources. Please acknowledge the TCEQ as your source.

Copies of this publication are available for public use through the Texas State Library, other state depository libraries, and the TCEQ Library, in compliance with state depository law. For more information on TCEQ publications, call 512-239-0028 or visit our website at:

www.tceq.state.tx.us/goto/publications

Published and distributed
by the
Texas Commission on Environmental Quality
PO Box 13087
Austin TX 78711-3087

The TCEQ is an equal opportunity employer. The agency does not allow discrimination on the basis of race, color, religion, national origin, sex, disability, age, sexual orientation or veteran status. In compliance with the Americans with Disabilities Act, this document may be requested in alternate formats by contacting the TCEQ at 512-239-0028, Fax 512-239-4488, or 1-800-RELAY-TX (TDD), or by writing PO Box 13087, Austin, TX 78711-3087.

How is our customer service? www.tceq.state.tx.us/goto/customersurvey

TABLE OF CONTENTS

About the Municipal Solid Waste Reporting Program	1
Waste Managed by Municipal Solid Waste Landfills	1
Who Files Reports.....	3
Reporting Period	3
Data Used.....	3
Landfills Reporting	4
Classification of MSW Facilities	5
Landfills	5
Processing Facilities	5
Other Information	6
Waste Information	7
Capacity Information	10
MSW Importation and Exportation	14
MSW Generation	14
Impact of Recycling on MSW Disposal	14
Trends Analyses.....	15
Historical Data Summary for MSW Landfills in Texas	19
Individual MSW Landfill Facility Data	20
Individual Facility Data for Non-Landfill Permitted and Registered MSW Facilities.....	27
References.....	30

TABLES

Table 1. Landfill Activity Status in 2009	4
Table 2. Number of MSW Processing Facilities that Reported for 2009	6
Table 3. Amounts of Residential, Commercial, and C&D Waste Disposed by Year.....	7
Table 4. Detailed Breakdown of Waste Types Landfilled in Texas in 2009.....	9
Table 5. Remaining Capacity by Facility Type	11
Table 6. Analysis of MSW Landfill Disposal in Texas in 2009 Grouped by COG	12
Table 7. Number of Counties Served by Landfills	17
Table 8. Number of Active Landfills by County –2009	18

FIGURES

Figure 1. Breakdown of Waste Types Landfilled in Texas, 2009	8
Figure 2. Texas Total and Per Capita Landfill.....	10
Figure 3. Map of Councils of Governments	13
Figure 4. Potential Reduction in Amounts Disposed.....	15
Figure 5. Number of Permitted Landfills and Remaining Capacity	16

ABOUT THE MUNICIPAL SOLID WASTE REPORTING PROGRAM

Municipal Solid Waste in Texas: A Year in Review is submitted by the Municipal Solid Waste (MSW) Permits Section, Waste Permits Division (MSW Program) for publication after the end of each fiscal year. The main purpose of the summary is to provide data on the amount of waste disposed in MSW landfills in the state during the last fiscal year and to show the remaining capacity available for disposal as of the end of that fiscal year. The MSW Program updates the summary with each publication in an attempt to improve accuracy, functionality, and analysis.

Waste Managed by Municipal Solid Waste Landfills

The definition of municipal solid waste is found in Title 30 of the Texas Administrative Code (30 TAC), Chapter 330 (Municipal Solid Waste), Subchapter A (General Information). MSW is defined as “solid waste, resulting from or incidental to municipal, community, commercial, institutional, and recreational activities, including garbage, rubbish, ashes, street cleanings, dead animals, abandoned automobiles, and all other solid waste other than industrial solid waste.” Industrial solid waste is defined and regulated under 30 TAC Chapter 335 (Industrial Solid Waste and Municipal Hazardous Waste).

The Texas definition of municipal solid waste considers the source, rather than the constituents or properties of the waste. Distributors, retailers, repair services and the general public are considered municipal generators while manufacturers are considered industrial solid waste generators. As an example, a power distribution provider is a municipal solid waste generator while an electric power generation plant is an industrial waste generator.

It is worth noting that the Texas definition of municipal solid waste is more encompassing than that of the US Environmental Protection Agency (US EPA) and several other states. While the US EPA definition does not include construction and demolition (C&D) debris and municipal sludge, the Texas definition does. Based on the Texas definition, the per capita municipal solid waste disposal and generation rates for Texas may appear to be higher than those of other states.

The US EPA and most states, including Texas, define municipal solid waste in terms of hazardous or non-hazardous. Texas also defines industrial solid wastes as being separate and distinct from municipal solid waste. In Texas, industrial solid waste may also be defined as hazardous or non-hazardous, with the non-hazardous industrial solid waste further defined by classes.

- Class 1 industrial non-hazardous waste includes waste that based on its constituents and properties may pose a substantial danger to human

health or the environment if not properly managed. There are special handling requirements for Class 1 wastes. Solidified industrial sludge containing metals or organics is often an example of Class 1 waste.

- Class 2 is a category for industrial solid waste that cannot be described as hazardous, Class 1, or Class 3. Activated sludge from industrial biological wastewater treatment and trash from plant offices are possible examples of Class 2 wastes.
- Class 3 wastes are inert and essentially insoluble industrial solid wastes that are not readily decomposable. Examples of Class 3 wastes include demolition debris and bricks from an industrial facility that are insoluble, do not react with other materials, and do not decompose.

It should be noted that waste classified as hazardous by federal rules cannot become non-hazardous through dilution. The Texas classification of Class 1 non-hazardous industrial waste is based on the leachable concentrations of constituents of concern found in the waste.

Under certain circumstances, non-hazardous industrial solid waste may be accepted at MSW landfills. Most MSW facilities may accept Class 2 and Class 3 wastes. Only facilities with dedicated Class 1 cells, which have more protective design requirements, may accept Class 1 nonhazardous waste.

Additional terms that are used in this summary include:

- **Residential waste:** waste generated in single and multi-family homes, including newspapers, clothing, disposable tableware, food packaging, cans, bottles, food scraps, and yard trimmings other than those that are diverted to backyard composting.
- **Commercial waste:** all solid waste generated by business establishments such as stores, markets, office buildings, restaurants, shopping centers, and theaters; and
- **Construction and demolition (C&D) waste:** includes waste building materials; dredging materials; tree stumps; and rubble resulting from for-hire construction, remodeling, repair, and demolition of homes, commercial buildings, and other structures and pavements. C&D waste may contain lead, asbestos, or other hazardous substances.

Who Files Reports

This summary includes data submitted to the agency by both permitted and registered solid waste facilities. The data is obtained by the TCEQ Executive Director under the authority of 30 TAC 330, Subchapter P (Fees and Reporting), which requires all registered or permitted facility operators to report the types and amounts of waste processed or disposed of at the facility or process location.

Reporting Period

Reports from MSW facilities are based on the Texas state fiscal year, which runs from September 1 through August 31. All references to 2009 are to fiscal year 2009. This summary covers data from September 1, 2008 through August 31, 2009.

Data Used

The data in this summary is condensed from reports submitted by 217 landfills (185 active and 32 inactive or in post-closure care). In addition, billing data was used for 5 landfills that did not submit a report. Data was also received from 33 (31 active and 2 inactive) other permitted MSW facilities, including transfer stations and processing facilities, and 36 (22 active and 14 inactive) registered MSW facilities, which are mostly small transfer stations that do not require a permit (see Tables 1 & 2).

Facility operators report information about different aspects of the facility, including operational information (e.g., what is the average haul distance to their facility); administrative information (e.g., who is operating the facility); and facility activities (e.g., amounts and types of waste accepted at the facility).

Texas statute allows an open but inactive landfill to reactivate and accept waste under certain circumstances. All open facilities are held to the requirements of their permit, regardless of their operational state.

In accordance with 30 TAC Section 39.510, if a permitted MSW facility has not begun accepting waste within six months of permit issuance or if the facility becomes inactive for six months, the owner or operator must post signs at the site specifying the facility's status. Additionally, if the period that the facility does not accept waste is extended to two years within permit issuance or it has ceased accepting waste for two consecutive years, the owner or operator must provide notice to the executive director, publish newspaper notice, and provide mailed notice stating their intent to either operate the facility in the future or to request revocation of their permit.

In accordance with 30 TAC Section 330.71(g), registered MSW facilities that do not commence physical construction within two years of registration issuance will have their registration automatically terminated.

In addition, population data for this summary was obtained from the US Census Bureau state population estimates for March 2010, found at www.census.gov.

LANDFILLS REPORTING

The MSW Program records indicate that for 2009 there are 295 permitted landfills in Texas. Of these, only 217 MSW landfills provided data. The MSW Program calculated the disposal for 5 non-reporting active landfills by using the quarterly billing data and estimated the remaining capacity by using permit data. These 5 landfills are small, arid exempt landfills and comprise a small fraction of the remaining capacity in the state.

In addition, there are 7 landfills indicated in the MSW Program records as “Active” that did not submit an annual report or quarterly billing information. The MSW Program will be actively pursuing final closure of these remaining 7 landfills, which will reconcile the program status counts with actual reports received.

Thus, the capacity analysis for this summary includes data for 190 landfills as shown in Table 1.

Activity Status for 2009	MSW Program Records	Reports Received	2009 Capacity Analysis
Active	197*	185	190**
Inactive – yet to receive waste	36	14	--
Inactive – previously received waste	8	6	--
Post-closure care - no longer accept waste, have installed a final cover system and do not plan to re-open	54	12	--
Total	295	217	190

Table 1–Landfill Activity Status in 2009

* MSW records indicate 7 landfills with no submitted annual or quarterly billing reports.

** Capacity analysis includes quarterly billing and permit data for 5 active landfills that did not submit annual reports.

CLASSIFICATION OF MSW FACILITIES

The TCEQ has classified all MSW facilities according to the method of processing or disposal of municipal solid waste.

Landfills

Type I facilities. A Type I landfill is the standard landfill for the disposal of municipal solid waste. Of the 190 active landfills reporting, 100 were permitted as Type I.

Type IV facilities. A Type IV landfill accepts only brush, construction and demolition (C&D) debris, and other similar waste that will not putrefy. Type IV facilities are not distributed evenly across the state; just over one third are located in the greater Houston area. Type IV landfills handled 11.1 percent of the total waste disposed in landfills and accounted for 4.8 percent of the total statewide capacity remaining in 2009. Of the 190 active landfills reporting, 22 (12 percent) were permitted as Type IV.

Arid exemption (AE) facilities. Type I and Type IV landfills in relatively dry parts of the state may be permitted as arid-exempt landfills. Arid exempt landfills are limited in the amount of solid waste they may accept and they are exempt from liner and groundwater monitoring requirements.ⁱ In 2009, 68 facilities (36 percent of active facilities) had an arid exemption. Of these, 49 are Type I AE and 19 are Type IV AE. All arid exempt facilities accounted for 1.2 percent of the total disposal and 1.1 percent of the total remaining landfill capacity in the state in 2009.

Processing Facilities

Permitted and registered solid waste processing facilities are classified as Type V or Type IX facilities. The different sub-types of processing facilities as well as the number of active MSW processing facilities that reported for 2009 are indicated in Table 2.

Type V facilities. Type V facilities include processing plants that transfer, incinerate, shred, grind, bale, compost, salvage, separate, dewater, reclaim, and/or provide other processing of solid waste. A closed disposal facility, an inactive portion of a disposal facility, or an active disposal facility may be used for materials extraction for energy and material recovery under a Type V authorization.

Type IX facilities. A Type IX is an energy, material, or gas recovery for beneficial use facility, or a landfill mining facility located within or adjacent to a landfill. Processing facilities may be authorized by permit. However, some facilities qualify for authorization by registration if they meet specific requirements identified by statute and rule. An example of a facility that would qualify for a registration is a transfer station that includes a material

recovery operation that recovers at least 10% by weight of the incoming stream for reuse or recycling.

Processing facility data for 2009:

Transfer stations (5TS).

There are 90 permitted or registered transfer stations in the state.

Waste incinerators (5WI).

There are 5 waste incinerators authorized in the state.

Liquid waste processors (5GG).

There are 24 authorized grease/grit trap processors in the state.

Composting (5RC). There are 38 authorized composting facilities in the state.

Recycling and Recovery (5RR). There are 6 permitted or registered recycling facilities in the state.

Autoclave (5AC). There are 2 authorized autoclave facilities in the state.

Medical Waste (5MW). There are 8 authorized medical waste processors in the state.

Gas recovery (9GR). There are 21 authorized gas recovery facilities in the state.

Facility Type	Active Permitted Facilities	Active Registered Facilities
5TS	14	15
5WI	1	1
5GG	10	2
5RC	1	3
5RR	1	1
5AC	2	--
5MW	2	--
9GR	--	--

Table 2. Number of MSW Processing Facilities that Reported for 2009.

Other Information

Use of scales. The majority of active landfills in Texas (78 percent) used scales to measure all or some of their incoming waste. Facilities using scales accepted about 90 percent of the total waste stream disposed. Facilities without scales (as well as many facilities with scales) reported waste disposal by volume (i.e., cubic yards), which was then converted to tons for this summary.

Texas Solid Waste Disposal Fee. As defined in Title 5 (Sanitation and Environmental Quality) Section 361.013(a) of the Texas Health and Safety Code:

“...the commission shall charge a fee on all solid waste that is disposed of within this state. The fee is \$1.25 per ton received for disposal at a municipal solid waste landfill if the solid waste is measured by weight. If the solid waste is measured by volume, the fee for compacted solid waste is 40 cents per cubic yard or, for uncompacted solid waste, 25 cents per cubic yard received for disposal at a municipal solid waste landfill.”

Landfill operators collect this Texas solid waste disposal fee as part of the tipping fee they charge to their customers. The average tipping fees detailed below include this state fee.

Tipping fees. Landfills charge their customers a tipping (disposal) fee based on weight or volume, depending upon the type of waste and method of delivery to the landfill. For example, one landfill might measure an open roll-off dumpster by volume and measure a compactor truck by weight. Most landfill operators (130, or 68 percent of the active landfills) reported that they collected tipping fees by the ton of waste, and the state-wide reported average rate was \$30.96 per ton. Fees for waste measured in compacted cubic yards averaged \$9.82 per cubic yard at 30 facilities (16 percent). For waste measured in uncompacted cubic yards, 58 facilities (38 percent) reported collecting fees, with an average rate of \$11.74 per cubic yard. Some landfills use both weight and volume to measure various types of incoming waste.

WASTE INFORMATION

Types of wastes. The largest single type of waste disposed in Texas MSW landfills in 2009 was residential waste, comprising 36 percent of the total waste stream, followed by commercial waste with 30 percent of the waste stream, and lastly, construction and demolition debris (C&D) with 21 percent. These three waste types make up the vast majority of the waste stream -- 87 percent of the MSW waste disposed in the state. Table 3 illustrates the amounts of these three waste types disposed over the past five years. Figure 1 provides a graphic view of the breakdown for 2009, and Table 4 provides a more detailed account.

Year	Residential Tons	Commercial Tons	C&D Tons
2005	10,070,782	9,680,195	5,468,701
2006	9,998,672	9,882,398	5,655,773
2007	10,810,065	11,382,383	6,125,893
2008	11,367,722	10,252,316	6,469,039
2009	11,576,774	9,689,844	6,676,780

Table 3. Amounts of Residential, Commercial, and C&D Waste Disposed by Year

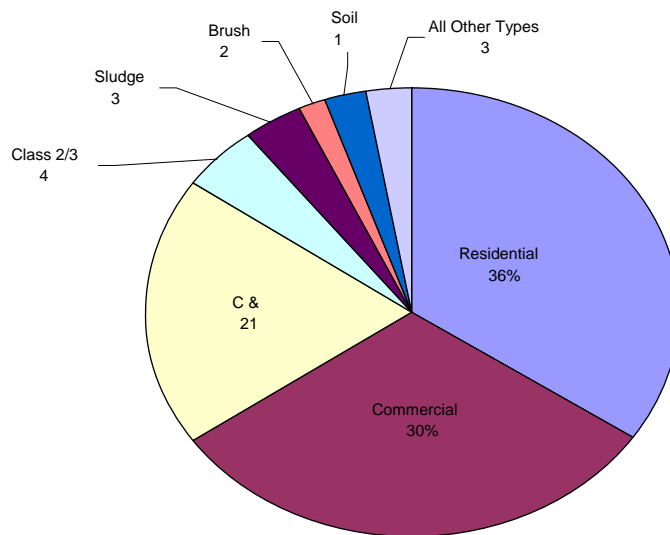


Figure 1. Breakdown of Waste Types Landfilled in Texas, 2009
Note: Class 1 waste is included in “Soil” and “All Other Types” categories

Table 4. Detailed Breakdown of Waste Types Landfilled in Texas in 2009

Waste Type	Number of Landfills That Accepted This Waste Type	Tons Disposed	Percent of Total Tons Disposed
TYPICAL MUNICIPAL SOLID WASTE			
Residential	147	11,576,774	35.88
Commercial	127	9,689,844	30.03
Institutional	38	133,988	0.42
Recreational	12	2,680	0.01
Brush	53	494,108	1.53
Construction/ Demolition	140	6,676,780	20.69
Dump and Litter Cleanup	14	3,790	0.01
NON-HAZARDOUS INDUSTRIAL WASTE			
Class 1 (asbestos)	15	4,691	0.01
Class 1 (other)	13	130,279	0.40
Classes 2 and 3	48	1,440,818	4.47
SPECIAL NON-INDUSTRIAL WASTE			
Incinerator ash	3	1,380	<0.01
Treated medical waste	13	21,954	0.07
Asbestos	45	137,980	0.43
Dead animals	75	15,451	0.05
Sludge	80	1,033,209	3.20
Grease trap waste	10	18,076	0.06
Grit trap waste	21	19,732	0.06
Septage	5	12,414	0.04
Contaminated soil	46	373,673	1.16
Tire pieces	29	18,625	0.06
Rejected materials	15	14,664	0.05
Other	32	443,352	1.37
Total		32,264,262	100

CAPACITY INFORMATION

Per capita rate. For 2009, total disposal in the state was 32.26 million tons. Using the state population estimate of 24,782,302,ⁱⁱ the per-capita landfill disposal rate for Texas for 2009 was 7.1 pounds per person per day.

The 2009 Texas per capita disposal rate of 7.1 pounds per person per day was less than the 2008 rate of 7.5 pounds per person per day. The decrease may be attributed to the downturn in the economy and/or an increase in recycling.

Table 4 combines types of waste disposed into the categories: typical municipal solid waste, non-hazardous industrial waste, and special non-industrial waste. For typical municipal solid waste, a 0.7 percent decrease in disposal represents part of the decrease from the 2008 disposal amount. Non-hazardous industrial generators disposed 11.8 percent less in MSW landfills than they did in 2008. The amount of special, non-industrial waste disposal also decreased by 16.3 percent. This overall decrease occurred while the state population increased by 1.9 percent to 24,782,302. See Figure 2 for a graphic representation of disposal amounts and per capita rates over time.

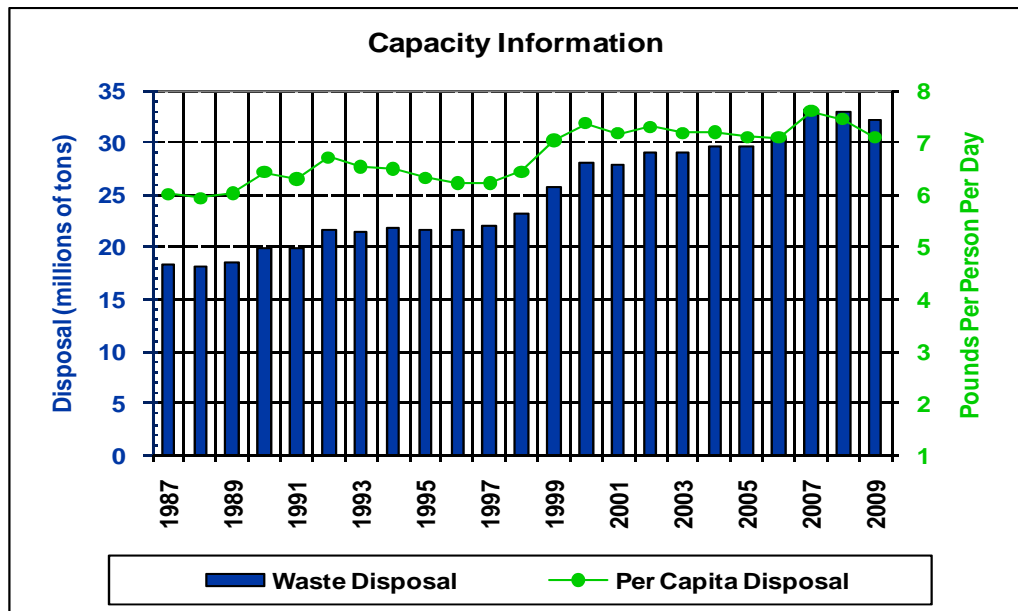


Figure 2. Texas Total and Per Capita Landfill Disposal

Landfill capacity. Total remaining landfill capacity in the state at the end of 2009 was 2.35 billion cubic yards. Based on reported compaction rates, this volume would hold 1.6 billion tons of waste and serve for 49 years. Table 5 summarizes the remaining capacity for Type I and Type IV landfills. The analyses in this summary are based on the assumptions that no new landfill expansions or new permits will be issued and that the 2009 population and disposal amounts will remain constant.

Facility Type	2009 Tons Disposed	2009 Tons Remaining	Years Capacity Remaining*
I and IAE	28,682,874	1,493,367,820	52
IV and IVAE	3,581,388	74,438,437	21
All types	32,264,262	1,567,806,257	49

Table 5. Remaining Capacity by Facility Type

* Average, assuming the 2009 disposal rate of 32.26 million tons per year

Growth and attrition. During the fiscal year 2009, statewide capacity increased; the count of active landfills decreased by one; and five facilities received permit amendments to expand. The resulting net capacity increased approximately 126 million tons (roughly 180 million cubic yards) or an 8.8 percent increase from the statewide 2008 capacity.

Statewide distribution. Texas appears to have an adequate reserve of landfill capacity in 2009. However, this capacity is not evenly distributed over every region of the state. There are 24 councils of governments (COGs) across the state, which are responsible for MSW management planning on a regional basis.ⁱⁱⁱ Of the 24 COG regions, only the Brazos Valley Council of Governments (BVCOG) has less than 10 years of capacity remaining. A new landfill has been permitted in the BVCOG region which, when opened, will raise the remaining capacity to over 30 years. In addition, the South Texas Development Council (STDC) COG region has 12 years of capacity remaining. Otherwise, remaining capacity appears to be adequate. See Table 6 for further capacity details for each COG and Figure 3 for a map of the COG regions.

Table 6. Analysis of MSW Landfill Disposal in Texas in 2009 Grouped by COG

COG	Active MSW Landfills		2009 Disposal				Remaining Capacity		
	Count	% of Total	Tons	% of Total	Population	Per Cap*	Tons	% of Total	Years **
1 PRPC	20	10.53	537,097	1.66	415,856	7.08	41,038,378	2.62	76
2 SPAG	18	9.47	428,105	1.33	397,355	5.90	85,810,959	5.47	200
3 NRPC	2	1.05	337,345	1.05	217,270	8.51	54,923,825	3.50	163
4 NCTCOG	22	11.58	8,242,020	25.55	6,614,889	6.83	339,072,001	21.63	41
5 ARK-TEX	4	2.11	361,922	1.12	278,570	7.12	32,088,668	2.05	89
6 ETCOG	4	2.11	645,861	2.00	813,566	4.35	118,833,880	7.58	184
7 WCTCOG	8	4.21	382,074	1.18	317,539	6.59	87,187,260	5.56	228
8 RGCOG	8	4.21	467,654	1.45	775,920	3.30	27,692,458	1.77	59
9 PBRPC	15	7.89	599,082	1.86	402,277	8.16	50,320,925	3.21	84
10 CVCOG	9	4.74	173,040	0.54	150,637	6.29	6,417,877	0.41	37
11 HOTCOG	4	2.11	793,574	2.46	345,308	12.59	41,598,059	2.65	52
12 CAPCOG	6	3.16	2,158,943	6.69	1,816,818	6.51	71,524,068	4.56	33
13 BVCOG	1	0.53	287,942	0.89	301,428	5.23	646,209	0.04	2
14 DETCOG	4	2.11	731,487	2.27	369,671	10.84	43,069,609	2.75	59
15 SETRPC	4	2.11	1,104,433	3.42	378,477	15.99	31,826,994	2.03	29
16 HGAC	26	13.68	9,433,158	29.24	6,005,334	8.61	209,788,205	13.38	22
17 GCRPC	1	0.53	141,863	0.44	187,532	4.15	4,118,691	0.26	29
18 AACOG	6	3.16	2,468,958	7.65	2,175,874	6.22	173,111,652	11.04	70
19 STDC	5	2.63	384,160	1.19	323,142	6.51	4,491,881	0.29	12
20 CBCOG	7	3.68	714,000	2.21	559,067	7.00	85,943,083	5.48	120
21 LRGVDC	5	2.63	1,207,707	3.74	1,157,918	5.72	29,727,688	1.90	25
22 TCOG	2	1.05	181,145	0.56	191,679	5.18	16,555,671	1.06	91
23 CTCOG	2	1.05	384,060	1.19	422,767	4.98	9,551,877	0.61	25
24 MRGDC	7	3.68	98,632	0.31	163,408	3.31	2,466,339	0.16	25
Totals	190	100	32,264,262	100	24,782,302	7.13	1,567,806,257	100	49

*Pounds per person per day

**Average, at 2009 disposal rate

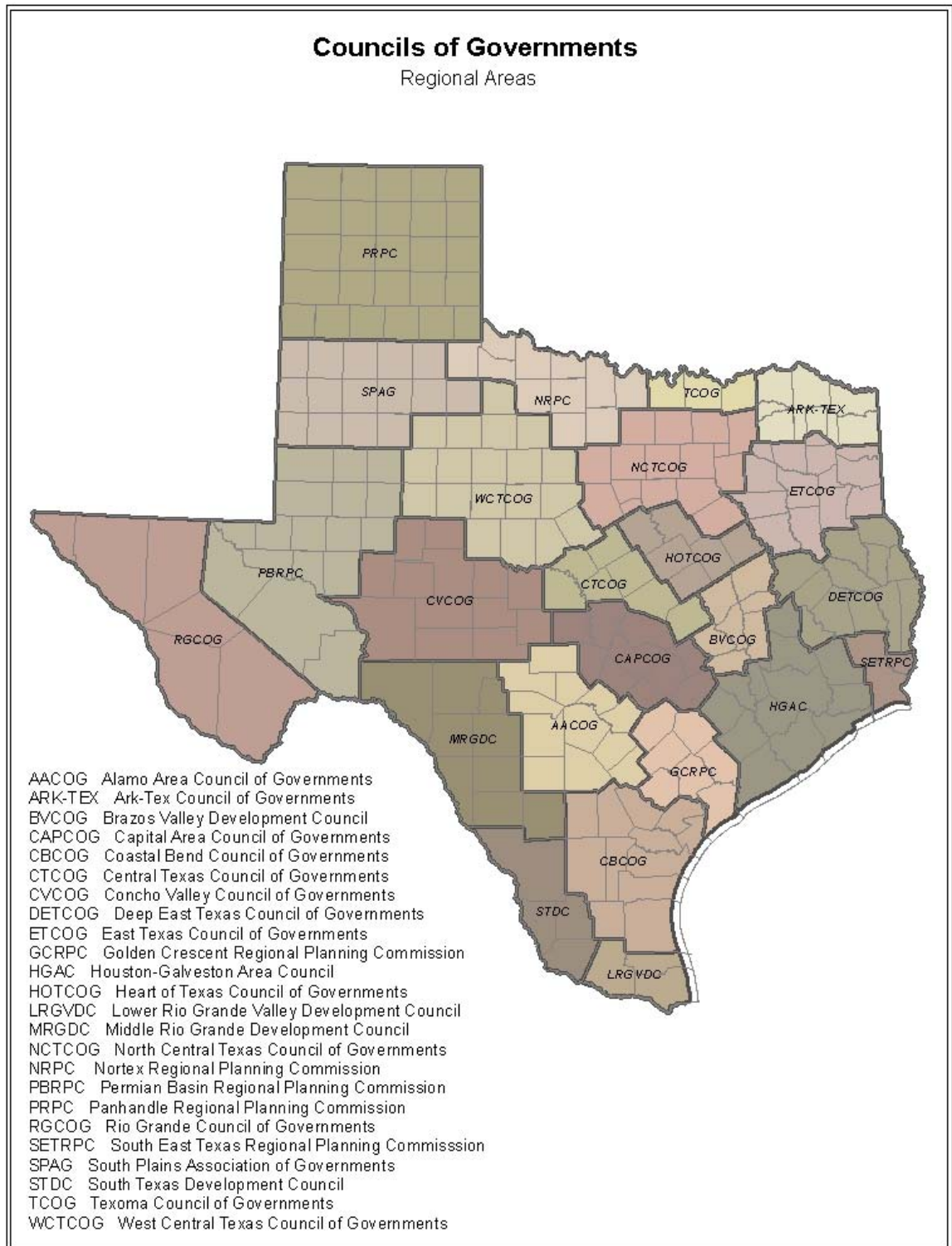


Figure 3. Map of Councils of Governments

MSW IMPORTATION AND EXPORTATION

Mexican imports. Six landfills received MSW from Mexico for a total of 1,375 tons, down from 10,243 tons in 2008.

State imports. Nineteen facilities imported 316,860 tons of MSW in 2009 from Arkansas, Louisiana, Maryland, New Mexico, Illinois, and Oklahoma. In 2008, 351,172 tons were imported from other states.

Waste exports. There are no requirements to track MSW exported out of Texas.

MSW GENERATION

US EPA definition. The US EPA defines MSW generation as the sum of: disposal (landfilling and combustion), recycling (including composting), and the net of imports and exports.

Texas recycling. Since the recycling facilities in Texas that are authorized by notification are not required to report, it is difficult to obtain an accurate statewide recycling rate. Furthermore, local governments, retail shops, schools, hospitals, other commercial and institutional generators that may recycle, and other recyclers are not required to report to the state.

Diversion at reporting sites. Materials were diverted for recycling or reuse at 123 registered and permitted facilities in 2009, accounting for 1,378,356 tons of material that was not landfilled. In addition, sixteen facilities composted at authorized processing facilities in the state. Landfills are required to report the amount of waste diverted from within the facility. Recycling efforts that divert materials before reaching the gate at permitted, registered, or authorized processing facilities are not required to be reported to the state and are therefore not captured in this summary.

IMPACT OF RECYCLING ON MSW DISPOSAL

Landfill disposal is one way that MSW is managed in Texas. The incentive to minimize the need for future disposal capacity in the state can be attributed to costs associated with potential environmental impacts, engineering design, construction, and general operating expenses. These costs are passed on to citizens. In addition, locating, permitting, and constructing a new landfill can be major considerations.

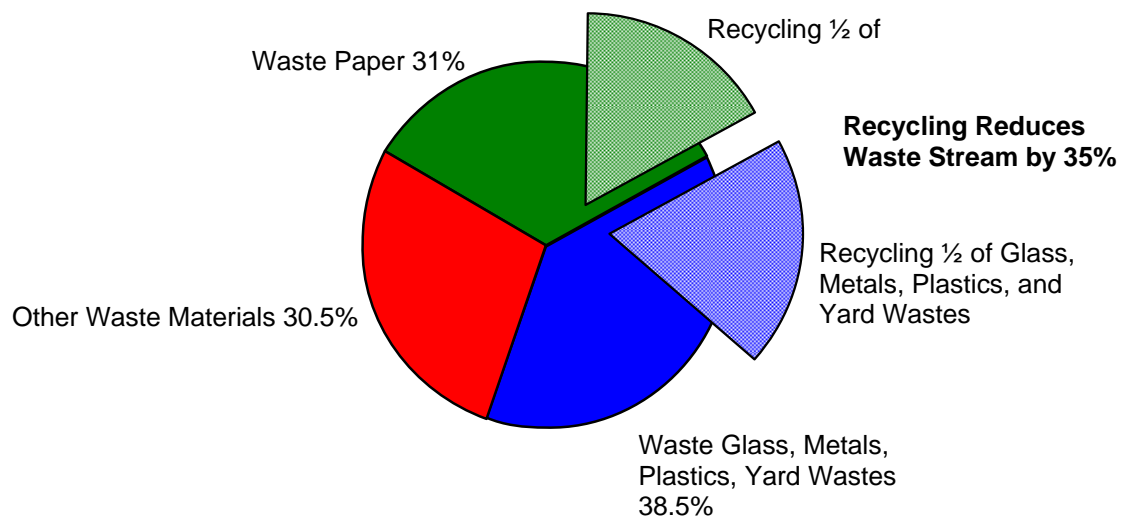
The long-term solution to adequate landfill capacity is not more or larger landfills. The solution lies in the US EPA's "4 Rs"—reduce, reuse, recycle, and rebuy—which, when made a part of the waste management process within our

communities, can reduce waste disposal and can benefit the environment. In the management of waste, recycling can have a measurable impact on the amount of waste disposed.

Throughout the state, paper, glass, aluminum cans, plastic, scrap metal, wood, and numerous other items are recycled every day. Citizens may choose reusable items over disposable items. New programs are developed every year that increase the impact that reducing, reusing, and recycling have on preserving disposal capacity. Figure 4 details the dramatic impact that can be achieved by recycling just one half of the available recyclables in household garbage.

Figure 4. Potential Reduction in Amounts Disposed

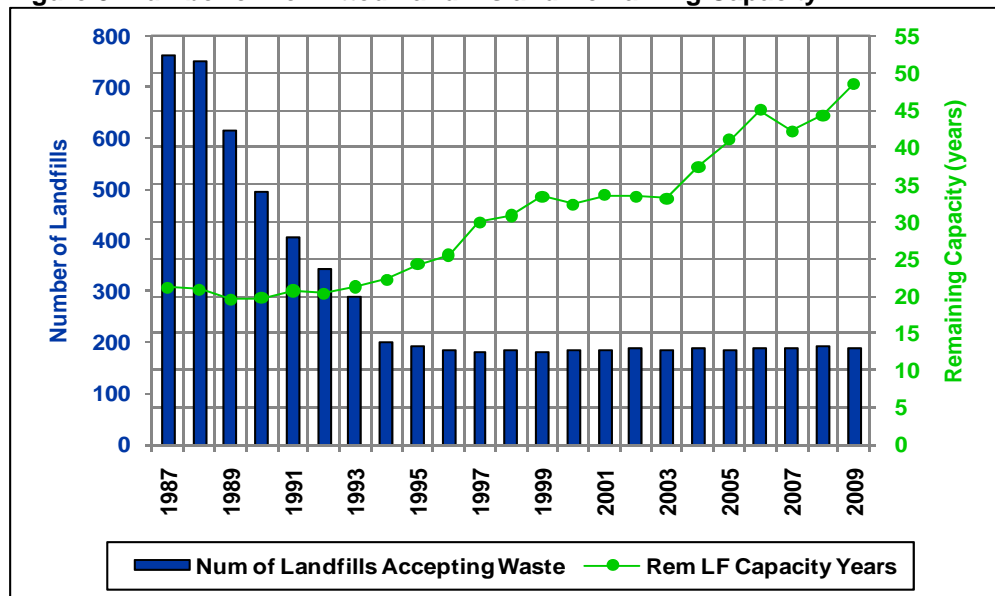
Source data: US EPA 2008 national averages for percentages of generated household wastes



TRENDS ANALYSES

Landfill closures. There have been over 700 MSW landfill closures in Texas since 1986, most due to the stringent requirements of the Federal Resource Conservation and Recovery Act (RCRA) Subtitle D. However, since the late 1990s this decreasing trend has changed, leveling out at about 217 permitted facilities reporting. Even with fewer landfills in the state, capacity has grown significantly in the past ten years. This trend indicates a continued move away from smaller community landfills and towards larger regional landfills. Figure 5 depicts permitted landfills, excluding those in post-closure care, and their remaining capacity in years.

Figure 5. Number of Permitted Landfills and Remaining Capacity



Capacity reserve. From 1986 to the mid-1990s, the state's reserve capacity for disposal was less than 22 years. The reserves have shown a steady increase since that time, with the current reserve capacity for disposal at about 49 years. This increase is due in part to increases in available volume of permitted disposal capacity, and in part to improvements in landfill technology. These technological improvements have nearly doubled the average waste compaction rates over the last twenty years. In 1986, the average compaction rate was approximately 650 pounds of waste per cubic yard. The average in 2000 was approximately 1,200 pounds per cubic yard, and the current average compaction rate is approximately 1,330 pounds per cubic yard. The relative flattening of this trend may indicate that available and affordable landfill compaction technologies have nearly reached their peak efficiencies.

Landfill size. In addition to improvements in the operation of landfills, the size and service areas of landfills have continued to grow. In 1986, the state-wide average landfill size was 50 acres with an average depth of 6.5 feet and an average height of 13 feet. In 2009, the state-wide average landfill size was 232 acres with an average maximum permitted depth of 36 feet and an average maximum permitted height of 93 feet. For the seventh consecutive year, there has been an increase in the number of regional landfills with a maximum height over 100 feet (56 in 2009, up from 55 in 2008). The number of landfills with a maximum permitted height over 200 feet (13) did not change in 2009.

Counties served. Of the active landfills in the state, 180 reported the number of counties they served, as detailed in Table 7. Service to more than one county was provided by 119 landfills (66 percent). Table 8 shows the number of active landfills in each Texas County.

Number of Landfills	Counties Served
61	1
77	2 – 5
24	6 – 10
9	11 – 15
6	16 – 20
3	>20

Table 7. Number of Counties Served by Landfills

Table 8. Number of Active Landfills by County – 2009

Anderson	0	Crane	1	Hartley	0	Madison	0	San Patricio	0
Andrews	1	Crockett	0	Haskell	1	Marion	0	San Saba	0
Angelina	1	Crosby	0	Hays	0	Martin	1	Schleicher	1
Aransas	0	Culberson	0	Hemphill	0	Mason	1	Scurry	1
Archer	0	Dallam	1	Henderson	0	Matagorda	0	Shackelford	0
Armstrong	1	Dallas	5	Hidalgo	4	Maverick	1	Shelby	0
Atascosa	0	Dawson	1	Hill	1	McCulloch	1	Sherman	0
Austin	0	Deaf Smith	1	Hockley	1	McLennan	2	Smith	1
Bailey	2	Delta	0	Hood	0	McMullen	1	Somervell	0
Bandera	0	Denton	3	Hopkins	0	Medina	0	Starr	3
Bastrop	0	DeWitt	0	Houston	0	Menard	1	Stephens	0
Baylor	0	Dickens	0	Howard	1	Midland	1	Sterling	0
Bee	0	Dimmit	1	Hudspeth	2	Milam	0	Stonewall	0
Bell	1	Donley	0	Hunt	1	Mills	0	Sutton	0
Bexar	2	Duval	1	Hutchinson	0	Mitchell	1	Swisher	1
Blanco	0	Eastland	0	Irion	1	Montague	0	Tarrant	3
Borden	0	Ector	1	Jack	0	Montgomery	1	Taylor	1
Bosque	0	Edwards	0	Jackson	0	Moore	2	Terrell	1
Bowie	2	El Paso	3	Jasper	0	Morris	0	Terry	2
Brazoria	2	Ellis	3	Jeff Davis	0	Motley	1	Throckmorton	0
Brazos	1	Erath	1	Jefferson	3	Nacogdoches	1	Titus	1
Brewster	2	Falls	0	Jim Hogg	0	Navarro	1	Tom Green	1
Briscoe	0	Fannin	0	Jim Wells	1	Newton	1	Travis	5
Brooks	1	Fayette	0	Johnson	2	Nolan	1	Trinity	0
Brown	1	Fisher	0	Jones	1	Nueces	2	Tyler	0
Burleson	0	Floyd	1	Karnes	0	Ochiltree	1	Upshur	0
Burnet	0	Foard	0	Kaufman	0	Oldham	1	Upton	2
Caldwell	0	Fort Bend	3	Kendall	0	Orange	0	Uvalde	2
Calhoun	0	Franklin	0	Kenedy	0	Palo Pinto	0	Val Verde	1
Callahan	0	Freestone	0	Kent	0	Panola	0	Van Zandt	0
Cameron	1	Frio	0	Kerr	1	Parker	1	Victoria	1
Camp	0	Gaines	1	Kimble	1	Parmer	0	Walker	0
Carson	1	Galveston	3	King	0	Pecos	1	Waller	0
Cass	0	Garza	1	Kinney	0	Polk	1	Ward	1
Castro	1	Gillespie	1	Kleberg	1	Potter	1	Washington	0
Chambers	2	Glasscock	1	Knox	0	Presidio	1	Webb	1
Cherokee	1	Goliad	0	La Salle	0	Rains	0	Wharton	0
Childress	1	Gonzales	0	Lamar	1	Randall	1	Wheeler	1
Clay	0	Gray	2	Lamb	4	Reagan	1	Wichita	2
Cochran	1	Grayson	2	Lampasas	0	Real	0	Wilbarger	0
Coke	0	Gregg	1	Lavaca	0	Red River	0	Willacy	0
Coleman	1	Grimes	0	Lee	0	Reeves	1	Williamson	1
Collin	1	Guadalupe	1	Leon	0	Refugio	0	Wilson	0
Collingsworth	2	Hale	1	Liberty	0	Roberts	0	Winkler	0
Colorado	1	Hall	1	Limestone	1	Robertson	0	Wise	0
Comal	1	Hamilton	0	Lipscomb	1	Rockwall	0	Wood	0
Comanche	0	Hansford	1	Live Oak	0	Runnels	0	Yoakum	1
Concho	0	Hardeman	0	Llano	0	Rusk	1	Young	0
Cooke	1	Hardin	1	Loving	0	Sabine	0	Zapata	1
Coryell	1	Harris	14	Lubbock	2	San Augustine	0	Zavala	2
Cottle	0	Harrison	0	Lynn	1	San Jacinto	0		

HISTORICAL DATA SUMMARY FOR MSW LANDFILLS IN TEXAS

Year	Waste Disposal (Tons)	State Population	Per Capita Disposal*	Number of Landfills Accepting Waste	Number of Landfills Not Accepting Waste**	Remaining Capacity		
						Cubic Yards	Tons	Years
1988	18,114,295	16,668,639	5.95	750	84	1,162,374,628	377,771,754	20.9
1989	18,531,001	16,806,521	6.04	616	83	1,111,902,033	361,368,161	19.5
1990	19,969,615	16,986,510	6.44	493	142	1,124,524,795	393,583,678	19.7
1991	19,973,622	17,349,000	6.31	405	135	1,183,699,041	414,294,664	20.7
1992	21,675,661	17,655,650	6.73	345	77	1,193,233,770	440,730,048	20.3
1993	21,517,063	18,031,484	6.54	289	62	1,205,635,627	456,161,796	21.2
1994	21,808,274	18,378,185	6.50	199	58	1,269,565,453	483,752,986	22.2
1995	21,639,678	18,723,991	6.33	191	39	1,071,520,039	523,633,365	24.2
1996	21,738,137	19,128,261	6.23	186	35	1,023,799,597	554,095,949	25.5
1997	22,094,777	19,439,337	6.23	181	37	1,169,628,669	659,694,441	29.9
1998	23,259,425	19,759,614	6.45	184	29	1,300,609,247	716,302,147	30.8
1999	25,791,066	20,044,141	7.05	179	34	1,557,349,331	862,778,821	33.4
2000	28,034,517	20,851,820	7.37	183	44	1,633,321,824	904,891,939	32.3
2001	27,938,751	21,235,018	7.18	186	42	1,710,713,869	939,383,633	33.6
2002	29,061,966	21,779,893	7.31	190	40	1,691,970,227	971,314,962	33.4
2003	29,073,315	22,118,509	7.20	184	39	1,506,807,849	963,972,887	33.1
2004	29,581,785	22,490,022	7.21	189	34	1,826,587,075	1,134,462,509	37.4
2005	29,671,151	22,859,968	7.11	186	32	1,870,868,394	1,217,845,562	41.0
2006	30,453,702	23,507,783	7.10	187	28	2,110,807,960	1,366,311,822	45.0
2007	33,183,488	23,904,380	7.61	188	28	2,158,501,232	1,403,592,411	42.2
2008	33,078,196	24,326,974	7.45	191	35	2,167,272,920	1,439,621,096	44.3
2009	32,264,522	24,782,302	7.13	190	20	2,351,154,567	1,567,806,257	48.6

* Using the Texas definition of MSW described on page 1 of this report.

** Excludes landfills in Post-Closure status

INDIVIDUAL MSW LANDFILL FACILITY DATA

Active landfills, organized by COG Region, Landfill Type, & Permit Number

All values rounded to the nearest whole number

Database Codes used:

2009 Tons – Total Tons Landfilled in 2009

Rem Yds – Remaining Landfill Capacity in Cubic Yards

Rate – Compaction Rate at the Landfill in Pounds per Cubic Yards

Rem Tons – Remaining Landfill Capacity in Equivalent Tons (based on landfill compaction rate)

Rem Yrs – Remaining Landfill Capacity in Years (based on operator estimate where appropriate or on permit volumes and waste acceptance rates)

* Numbers estimated from billing data and permit application

COG	Permit	Site Name	County	Type	2009 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
PANHANDLE REGIONAL PLANNING COMMISSION									
1	73	City of Amarillo Landfill	Potter	1	222,200	72,885,532	800	29,154,213	101
1	211	City of Dumas Landfill	Moore	1	17,671	110,845	800	44,338	3
1	215	City of Hereford Landfill	Deaf Smith	4AE	5,079	347,661	850	145,206	35
1	414	Armstrong County Landfill	Armstrong	4AE	2,148	274,973	500	68,743	32
1	445	City of Dimmitt Landfill	Castro	1AE	7,611	1,264,863	750	474,324	62
1	570	City of McLean Landfill	Gray	1AE	760	556,337	850	236,443	15
1	791	Cal Farley's Boys Ranch	Oldham	4AE	550	146,250	400	29,250	303
1	876	City of Perryton Landfill	Ochiltree	1AE	6,348	78,832	890	35,080	6
1	955	City of Wellington Landfill	Collingsworth	1AE	5,841	555,486	800	222,194	38
1	1009	City of Tulia MSW Landfill *	Swisher	1AE	5,725	783,172	800	313,269	55
1	1038	City of Dalhart Municipal Landfill	Dallam	1AE	10,505	457,437	785	179,544	17
1	1164	City of Panhandle MSW Landfill *	Carson	1AE	2,588	838,080	400	209,216	65
1	1663	Southwest Landfill	Randall	1	168,303	4,563,895	1,291	2,945,994	18
1	1943	City of Booker Landfill	Lipscomb	1AE	1,712	468,584	850	199,148	63
1	2238	City of Pampa Landfill	Gray	1	53,297	9,171,120	1,000	4,585,560	86
1	2263	City of Childress Landfill	Childress	1AE	6,395	2,463,404	800	985,362	125
1	2266	City of Memphis	Hall	1AE	6,663	1,061,619	800	424,647	68
1	2281	City of Shamrock	Wheeler	1AE	4,691	362,290	800	144,916	31
1	2285	City of Dumas Landfill	Moore	4AE	5,483	310,824	800	124,330	23

COG	Permit	Site Name	County	Type	2009 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
1	2352	City of Spearman Landfill	Hansford	1AE	3,527	1,081,887	955	516,601	147
SOUTH PLAINS ASSOCIATION OF GOVERNMENTS									
2	69	Caliche Canyon Landfill	Lubbock	1	35,019	1,022,368	806	412,014	12
2	363	City of Amherst Landfill	Lamb	4AE	133	4,474	400	895	1
2	549	City of Matador Landfill	Motley	1AE	4,313	522,637	800	209,054	76
2	564	City of Muleshoe Landfill	Bailey	4AE	2,976	192,707	800	77,083	26
2	583	City of Olton Landfill	Lamb	1AE	7,496	1,004,345	666	334,447	42
2	1298	City of Littlefield Landfill	Lamb	4AE	6,382	343,256	1,400	269,487	36
2	1733	City of Sundown Landfill	Hockley	4AE	735	233,787	850	99,359	135
2	2157	City of Plainview	Hale	1	31,200	10,495,370	717	3,759,966	121
2	2170	Brownfield MSW Landfill	Terry	1	10,924	4,546,815	1,038	2,359,797	216
2	2207	City of Floydada Landfill	Floyd	1AE	6,227	944,483	830	391,960	63
2	2217	Yoakum County Landfill	Yoakum	1AE	8,963	3,320,785	800	1,328,314	116
2	2227	City of Post Landfill	Garza	1AE	4,872	246,135	650	79,994	17
2	2252	West Texas Regional Disposal Facility	Lubbock	1	272,561	109,209,291	1,362	74,371,527	273
2	2268	City of Morton Landfill	Cochran	4AE	194	808,768	400	161,754	150
2	2274	City of Littlefield Landfill	Lamb	1AE	7,144	1,357,978	1,400	950,585	100
2	2291	City of Muleshoe Landfill	Bailey	1AE	6,776	558,592	800	223,437	33
2	2293	City of Meadow Landfill	Terry	1AE	12,835	871,471	800	348,588	24
2	2328	Tahoka MSW Landfill	Lynn	1AE	9,355	1,018,114	850	432,698	59
NORTEX REGIONAL PLANNING COMMISSION									
3	1428	City of Wichital Falls Landfill	Wichita	1	161,243	72,508,409	1,000	36,254,205	200
3	1571	IESI Buffalo Creek Landfill	Wichita	1	176,102	30,935,576	1,207	18,669,620	106
NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS									
4	42	Skyline Landfill	Ellis	1	1,005,513	36,449,000	1,400	25,514,000	74
4	47	IESI Weatherford Landfill	Parker	1	193,315	4,020,969	1,217	2,446,760	13
4	62	McCommas Bluff Landfill	Dallas	1	1,567,811	101,780,424	1,398	71,168,542	45
4	218	Southeast Landfill	Tarrant	1	228,585	4,330,887	1,475	3,194,029	14
4	358	Arlington Landfill	Tarrant	1	919,798	14,470,213	1,564	11,315,707	12
4	534	City of Cleburne Landfill	Johnson	1	1,140	30,943	1,000	15,472	14
4	568	McCKinney Landfill	Collingsworth	1	44,437	1,113,440	1,531	852,338	0
4	664	Stephenville Municipal Landfill	Erath	4	4,518	641,086	850	272,462	53
4	996	City of Grand Prairie Landfill	Dallas	1	171,299	13,804,261	1,625	11,215,962	46

COG	Permit	Site Name	County	Type	2009 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
4	1025	DFW Landfill	Dallas	1	1,266,329	18,319,000	1,860	17,037,000	11
4	1195	Republic Maloy Landfill	Hunt	1	156,931	6,949,298	1,253	4,353,179	28
4	1209	CSC Disposal and Landfill	Ellis	1	109,552	30,114,337	1,437	21,637,151	198
4	1312	Camelot Landfill	Denton	1	291,352	7,852,375	1,819	7,141,735	25
4	1394	Hunter Ferrell Landfill	Dallas	1	161,002	8,851,514	1,400	6,196,060	42
4	1417	Turkey Creek Landfill	Johnson	1	83,029	12,132,841	1,442	8,747,779	35
4	1590	City of Denton Landfill	Denton	1	160,596	12,486,986	1,233	7,698,227	48
4	1745	ECD Landfill	Ellis	1	39,873	40,199,988	1,115	22,411,493	562
4	1749	Lewisville Landfill	Denton	4	206,134	22,945,327	1,641	18,826,641	91
4	1895	City of Garland Charles M Hinton Landfill	Dallas	1	340,212	29,301,828	1,187	17,390,635	51
4	1983	IESI Fort Worth C&D Landfill	Tarrant	4	472,294	6,559,888	1,548	5,077,354	11
4	2190	Corsicana Regional Landfill	Navarro	1	104,537	24,762,309	1,000	12,381,155	118
4	2294	121 Regional Disposal Facility	Collin	1	713,763	127,845,259	1,004	64,178,320	86
ARK-TEX COUNCIL OF GOVERNMENTS									
5	576	New Boston Landfill	Bowie	1	166,883	1,993,000	1,060	1,056,000	6
5	797	Pleasant Oaks Landfill	Titus	1	80,389	20,398,677	1,739	17,736,650	221
5	1454	Paris Landfill	Lamar	1	114,422	17,265,200	1,440	12,431,000	109
5	1898	Lone Star AAP Area A Landfill	Bowie	1	228	2,035,336	850	865,018	137
EAST TEXAS COUNCIL OF GOVERNMENTS									
6	1249	IESI East Texas Regional Landfill	Rusk	1	91,330	1,209,720	1,100	665,346	7
6	1327	Pinehill Landfill	Gregg	1	225,211	17,066,506	1,845	15,743,852	70
6	1614	Royal Oaks Landfill	Cherokee	1	80,494	2,929,266	1,579	2,312,656	29
6	1972	Greenwood Farms Landfill	Smith	1	248,826	107,186,323	1,868	100,112,026	402
WEST CENTRAL TEXAS COUNCIL OF GOVERNMENTS									
7	50	Sweetwater Landfill	Nolan	4AE	3,554	309,814	400	61,963	12
7	420	Colorado City MSW Facility	Mitchell	1AE	2,339	293,194	700	102,617	22
7	1302	Coleman Landfill	Coleman	4AE	136	14,402	500	3,601	42
7	1463	City of Snyder Landfill	Scurry	1	35,194	10,930,372	1,000	5,465,186	149
7	1469	Abilene Regional Landfill	Taylor	1	194,248	90,701,521	1,265	57,368,712	295
7	1562	Brownwood Regional MSW Disposal Facility	Brown	1	84,455	18,773,913	1,100	10,325,652	122
7	1604	Haskell Municipal Landfill	Haskell	1AE	8,775	926,133	700	324,147	28
7	2325	Abilene Environmental Landfill	Jones	1	53,373	20,052,418	1,350	13,535,382	61
RIO GRANDE COUNCIL OF GOVERNMENTS									

COG	Permit	Site Name	County	Type	2009 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
8	495	Hudspeth County Dell City Landfill *	Hudspeth	1AE	1,465	214,520	400	42,904	29
8	729	McCombs Landfill	El Paso	1	3,785	16,384,497	1,325	10,854,729	11
8	957	Hudspeth County Sierra Blanca Landfill *	Hudspeth	1AE	5,665	1,348,249	400	269,650	74
8	1276	Grapevine Hills Landfill	Brewster	1AE	368	107,245	750	40,217	18
8	1422	Fort Bliss MSW Landfill	El Paso	1	21,900	146,933	1,104	81,087	4
8	1737	City of Presidio	Presidio	1AE	5,939	801,980	650	260,644	44
8	2197	City of Alpine Landfill	Brewster	1AE	12,365	3,651,392	329	600,822	45
8	2284	Clint Municipal Landfill	El Paso	1	416,167	23,460,234	1,325	15,542,405	23
PERMIAN BASIN REGIONAL PLANNING COMMISSION									
9	39	City of Seminole Landfill	Gaines	1AE	11,528	2,630,821	550	723,475	60
9	171	City of Andrews Landfill	Andrews	1AE	13,199	1,139,451	850	484,267	39
9	288	City of Big Spring	Howard	1	36,379	750,123	765	286,922	8
9	427	City of Crane	Crane	1AE	3,996	28,453	700	9,959	2
9	517	Lamesa Landfill	Dawson	1	17,730	1,640,342	1,138	933,355	53
9	566	City of McCamey Landfill *	Upton	4AE	2,032	813,375	400	162,675	28
9	673	Terrell County Landfill	Terrell	4AE	35	33,123	300	4,968	144
9	691	Upton County Landfill	Upton	4AE	60	92,882	400	18,576	382
9	772	Monahans Landfill	Ward	1AE	14,872	1,194,196	650	388,114	30
9	976	City of Fort Stockton Landfill	Pecos	1AE	12,295	412,494	800	164,997	13
9	1605	City of Midland Landfill	Midland	1	203,334	35,151,407	1,300	22,848,414	60
9	2120	City of Pecos Landfill	Reeves	1	11,773	969,382	850	411,987	29
9	2154	Glasscock County Landfill	Glasscock	1AE	415	83,613	250	10,452	24
9	2158	Charter Waste Landfill	Ector	1	267,427	35,302,551	1,336	23,574,055	88
9	2189	City of Stanton Landfill	Martin	1AE	4,007	597,418	1,000	298,709	75
CONCHO VALLEY COUNCIL OF GOVERNMENTS									
10	26	City of Junction	Kimble	4AE	1,525	244,633	1,000	122,316	6
10	79	San Angelo Landfill	Tom Green	1	141,290	6,445,141	1,150	3,705,956	26
10	86	Big Lake Landfill	Reagan	1AE	4,423	1,113,195	500	278,298	93
10	195	Mason Landfill	Mason	1AE	2,645	102,167	1,000	51,083	19
10	614	Robert Lee Landfill	Coke	4AE	426	25,671	850	10,910	16
10	1270	Barnhart Landfill	Irion	1AE	1,771	79,233	530	20,996	12
10	1404	City of Menard Landfill	Menard	4AE	26	12,576	850	5,345	50
10	1732	City of Brady Landfill	McCulloch	1AE	11,629	2,581,406	900	1,161,633	100

COG	Permit	Site Name	County	Type	2009 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
10	2264	City of Eldorado Landfill	Schleicher	1AE	9,305	1,415,121	1,500	1,061,340	114
HEART OF TEXAS COUNCIL OF GOVERNMENTS									
11	241	Itasca Landfill	Hill	1	402,746	33,623,475	1,764	29,655,905	74
11	948	City of Waco Landfill	McLennan	1	244,573	7,992,215	1,090	4,353,892	18
11	1558	Mexia Landfill	Limestone	1	45,630	8,074,706	1,544	6,233,673	137
11	1646	Lacy Lakeview Recycling & Disp Fac	McLennan	1	100,625	1,933,521	1,400	1,354,589	10
CAPITAL AREA COUNCIL OF GOVERNMENTS									
12	249	Austin Community Recycling & Disp Fac	Travis	1	415,784	3,000,874	1,480	2,220,648	4
12	360	City of Austin Landfill	Travis	4	186	94,135	1,000	47,068	0
12	1405	Williamson County Recycling & Disp Fac	Williamson	1	290,663	62,752,937	1,500	47,064,703	125
12	1447	BFI Sunset Farms Landfill	Travis	1	565,502	1,091,503	1,228	670,183	1
12	1841	IESI Travis County C&D Landfill	Travis	4	157,302	3,243,674	1,254	2,033,783	13
12	2123	Texas Disposal Systems Landfill	Travis	1	729,506	28,658,358	1,360	19,487,683	27
BRAZOS VALLEY COUNCIL OF GOVERNMENTS									
13	1444	Rock Prairie Road Landfill	Brazos	1	287,942	855,906	1,510	646,209	2
DEEP EAST TEXAS REGIONAL PLANNING COMMISSION									
14	720	City of Nacogdoches Landfill	Nacogdoches	1	75,131	3,872,507	800	1,549,003	21
14	1384	Polk County Landfill	Polk	1	134,162	9,112,685	1,408	6,417,384	48
14	2105	Angelina County Waste Mgmt Center	Angelina	1	123,988	4,642,800	1,200	2,785,680	22
14	2242	Newton County Landfill	Newton	1	398,206	44,270,605	1,460	32,317,542	101
SOUTH EAST TEXAS REGIONAL PLANNING COMMISSION									
15	1486	City of Beaumont MSW Landfill	Jefferson	1	288,679	20,901,894	1,177	12,304,358	43
15	1815	City of Port Arthur Landfill	Jefferson	1	234,430	17,601,156	1,000	8,800,578	42
15	2027	BFI Golden Triangle Landfill	Jefferson	1	527,738	10,028,294	1,949	9,772,573	19
15	2214	IESI Hardin County Landfill	Hardin	1	53,586	1,582,475	1,200	949,485	18
HOUSTON-GALVESTON AREA COUNCIL									
16	203	Altair Landfill	Colorado	1	31,228	1,100,203	1,200	660,122	21
16	261	McCarty Road Landfill	Harris	1	1,448,879	35,033,257	2,451	42,933,256	30
16	1149	Galveston County Landfill	Galveston	1	444,880	6,911,781	1,758	6,075,456	14
16	1193	Whispering Pines Landfill	Harris	1	172,300	10,434,340	1,655	8,634,416	50
16	1301	Addicks - Fairbanks Landfill	Harris	4	46,063	1,094,891	1,320	722,628	16
16	1307	Atascocita Landfill	Harris	1	1,220,386	24,322,594	1,560	18,971,623	16

COG	Permit	Site Name	County	Type	2009 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
16	1403	Casco Landfill	Harris	4	67,354	2,152,240	900	968,508	20
16	1502	Chambers County Landfill	Chambers	1	136,355	192,588	850	81,850	1
16	1505	Blue Ridge Landfill	Fort Bend	1	628,618	12,162,272	1,832	11,140,641	18
16	1535	Baytown Landfill	Chambers	1	345,299	12,033,670	1,380	8,303,232	24
16	1539	Seabreeze Environmental Landfill	Brazoria	1	986,272	28,540,384	1,440	20,549,076	29
16	1540	Greenshadow Landfill	Harris	4	170,299	3,493,050	1,560	2,724,579	16
16	1565	Fairbanks Landfill	Harris	4	20	9,526	1,800	8,573	1
16	1586	Greenbelt Landfill	Harris	4	280,464	4,801,548	1,200	2,880,929	13
16	1599	Greenhouse Road Landfill	Harris	4	87,864	7,010,653	800	2,804,261	31
16	1708	Dixie Farm Road Landfill	Brazoria	4	108,589	2,592,564	880	1,140,728	16
16	1721	Coastal Plains Landfill	Galveston	1	646,665	15,928,183	1,560	12,423,983	19
16	1752	Security Landfill	Montgomery	1	416,501	16,448,533	1,360	11,185,002	27
16	1797	Sprint Fort Bend County Landfill	Fort Bend	4	282,690	18,254,626	1,140	10,559,037	39
16	1849	North County Landfill	Galveston	4	334,131	3,665,100	1,250	2,290,687	23
16	1921	Cougar Landfill	Harris	4	166,573	1,048,358	1,400	733,851	2
16	2185	Hawthorn Park Landfill	Harris	4	289,108	2,691,485	1,240	1,668,721	7
16	2240	Ralston Road Landfill	Harris	4	121,190	378,138	1,200	227,071	1
16	2270	Fort Bend Regional Landfill	Fort Bend	1	574,848	45,377,232	1,400	31,764,062	50
16	2304	Tall Pines Landfill	Harris	4	329,535	5,138,266	1,200	3,082,960	9
16	2344	Lone Star Recycling and Disposal Facility	Harris	4	97,047	14,505,906	1,000	7,252,953	38
GOLDEN CRECENT REGIONAL PLANNING COMMISSION									
17	1522	City of Victoria Landfill	Victoria	1	141,863	8,180,122	1,007	4,118,691	29
ALAMO AREA COUNCIL OF GOVERNMENTS									
18	66	Mesquite Creek Landfill	Comal	1	333,015	14,502,350	1,800	13,052,115	29
18	1410	Tessman Road Landfill	Bexar	1	804,231	80,348,323	1,240	49,815,960	62
18	1506	City of Kerrville Landfill	Kerr	1	55,764	850,849	983	418,192	8
18	1848	Nido Ltd / Beck Landfill	Guadalupe	4	212,357	7,794,397	1,300	5,066,358	18
18	1995	City of Fredericksburg Landfill	Gillespie	1	24,786	2,061,980	1,180	1,216,568	47
18	2093	Covel Gardens Landfill	Bexar	1	1,038,805	115,047,177	1,800	103,542,459	58
SOUTH TEXAS DEVELOPMENT COUNCIL									
19	783	San Ygnacio Landfill	Zapata	1AE	1,503	341,684	800	136,600	59
19	954	City of Roma Landfill	Starr	1AE	5,285	150,012	850	63,755	18
19	1033	City of La Grulla Landfill	Starr	1AE	44	62,477	850	26,553	87

COG	Permit	Site Name	County	Type	2009 Tons	Rem Yds	Rate	Rem Tons	Rem Yrs
19	1693	City of Laredo Sanitary Landfill	Webb	1	346,523	6,592,132	1,294	4,264,973	12
19	1762	Starr County Landfill	Starr	1AE	30,805	0	666	0	0
COASTAL BEND COUNCIL OF GOVERNMENTS									
20	235	City of Kingsville Landfill	Kleberg	1	29,844	3,622,224	817	1,479,678	49
20	262	City of Alice Landfill	Jim Wells	1	37,833	1,286,485	1,394	896,680	24
20	379	Brooks County Landfill	Brooks	4AE	306	303,307	400	60,661	29
20	571	McMullen County Landfill	McMullen	1AE	500	30,000	200	3,000	23
20	1481	Duval County Landfill	Duval	4AE	6,585	50	1,000	25	0
20	2267	El Centro Landfill	Nueces	1	214,800	16,016,718	1,910	15,295,966	71
20	2269	Cefe Valenzuela Landfill	Nueces	1	424,132	129,057,849	1,057	68,207,073	160
LOWER RIO GRAND VALLEY DEVELOPMENT COUNCIL									
21	956	Edinburg Regional Sanitary Landfill	Hidalgo	1	299,032	10,232,067	1,300	6,650,844	20
21	1273	Brownsville MSW Landfill	Cameron	1	286,690	30,393,542	1,140	17,324,318	39
21	1727	Precinct 3 - Penitas Landfill	Hidalgo	1AE	3,736	6,813	1,000	3,407	1
21	1948	BFI-Rio Grande Valley Landfill	Hidalgo	1	516,750	2,039,289	1,554	1,584,527	3
21	2302	Edinburg Regional Type IV Landfill	Hidalgo	4	101,499	11,898,833	700	4,164,592	32
TEXOMA COUNCIL OF GOVERNMENTS									
22	523	Hillside Landfill	Grayson	1	64,399	12,171,000	980	5,416,000	74
22	2290	TASWA Disposal and Recycling Facility	Grayson	1	116,746	24,754,825	900	11,139,671	58
CENTRAL TEXAS COUNCIL OF GOVERNMENTS									
23	692	Temple Recycling & Disposal Facility	Bell	1	361,940	10,951,042	1,460	7,994,261	19
23	1866	Fort Hood Landfill	Coryell	1	22,120	3,162,673	985	1,557,616	60
MIDDLE RIO GRANDE DEVELOPMENT COUNCIL									
24	207	City of Del Rio Municipal Landfill	Val Verde	1	48,286	1,613,037	600	483,911	10
24	630	City of Sabinal Landfill	Uvalde	4	8	3,722	400	744	8
24	1308	Crystal City MSW Facility	Zavala	1AE	9,260	1,523,325	850	647,413	162
24	1725	City of Uvalde Landfill	Uvalde	1	26,669	912,782	1,000	456,391	16
24	1918	City of Eagle Pass Type IV Landfill	Maverick	4AE	7,798	1,218,138	750	456,802	29
24	2225	City of Carrizo Springs Landfill	Dimmit	1AE	3,871	1,191,194	600	357,358	43
24	2303	Zavala County MSWF Landfill *	Zavala	1AE	2,740	228,797	550	63,720	31

INDIVIDUAL FACILITY DATA FOR NON-LANDFILL PERMITTED AND REGISTERED FACILITIES

Active facilities, organized by COG Region and Facility Permit or Registration Number

Database Codes used:

Type 5AC = Medical waste autoclave facility

Type 5GG = Liquid waste (i.e., grease trap waste, grit trap waste, sludge, septage) processing facility

Type 5MW = Medical waste processor

Type 5RC = Mixed waste composting facility

Type 5RR = Materials recovery facility (MRF)

Type 5SG = Waste-to-energy facility (incineration with electrical power generation)

Type 5TS = Transfer station

Type 5WI = Incinerator (no electrical power generation)

2009 Tons = Total tons handled in fiscal year 2009 in terms of major permitted activity (e.g., for a transfer station, total tons transferred; for an incinerator, total tons incinerated)

For a liquid waste processing facility, waste is reported in gallons but converted here to approximate tons equivalent

COG	P/R #	Site Name	County	Type	2009 Tons
PANHANDLE REGIONAL PLANNING COMMISSION					
1	76	City of Amarillo Transfer Station	Potter	5TS	148,181
1	790	Cal Farley's Boys Ranch	Oldham	5WI	<1
SOUTH PLAINS ASSOCIATION OF GOVERNMENTS					
2	2231	South Plains Disposal	Lubbock	5GG	7,384
2	40051	City of Levelland Transfer Station	Hockley	5TS	12,807
NORTEX REGIONAL PLANNING COMMISSION					
3	1429	City of Wichita Falls Transfer Station	Wichita	5TS	85,941
3	2229	Liquid Waste Processing	Wichita	5GG	20,336
3	42010	City of Wichita Falls Composting Facility	Wichita	5RC	21,930
NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS					
4	12	City of Garland Transfer Station	Dallas	5TS	109,285
4	53	Lookout Drive Transfer Station	Collin	5TS	155,809
4	60	Fair Oaks Transfer Station	Dallas	5TS	68,000
4	1145	Bachman Transfer Station	Dallas	5TS	144,344
4	1263	City of Mesquite Transfer Station	Dallas	5TS	45,585

COG	P/R #	Site Name	County	Type	2009 Tons
4	1421	PSC Recovery Systems LLC	Dallas	5GG	52,647
4	1433	Burleson Transfer Station	Johnson	5TS	7,138
4	1453	Oak Cliff Transfer Station	Dallas	5TS	76,404
4	1494	Parkway Transfer Station	Collin	5TS	109,079
4	2045	Custer Road Transfer Station	Collin	5TS	257,630
4	2245	Stericycle Garland Facility	Dallas	5AC	15,517
4	2256	Alco Environmental	Tarrant	5GG	70,088
4	41892	Allied Waste Services of Plano Hauling & Material Recovery Facility	Collin	5RR	55,141
4	42005	City of Garland Composting	Dallas	5RC	13,827
ARK-TEX COUNCIL OF GOVERNMENTS					
5	40061	South Regional WWTP	Bowie	5TS	63,967
EAST TEXAS COUNCIL OF GOVERNMENTS					
6	40172	City of Carthage Transfer Station	Panola	5TS	12,588
WEST CENTRAL TEXAS COUNCIL OF GOVERNMENTS					
RIO GRANDE COUNCIL OF GOVERNMENTS					
PERMIAN BASIN REGIONAL PLANNING COMMISSION					
CONCHO VALLEY COUNCIL OF GOVERNMENTS					
HEART OF TEXAS COUNCIL OF GOVERNMENTS					
CAPITAL AREA COUNCIL OF GOVERNMENTS					
12	466	Georgetown Transfer Station	Williamson	5TS	58,639
BRAZOS VALLEY COUNCIL OF GOVERNMENTS					
DEEP EAST TEXAS REGIONAL PLANNING COMMISSION					
14	40226	Pro Star Waste	Polk	5TS	784
14	40038	Tyler County Transfer Station	Tyler	5TS	2,358
SOUTH EAST TEXAS REGIONAL PLANNING COMMISSION					
HOUSTON-GALVESTON AREA COUNCIL					
16	1117	Groce Trap Maintenance	Harris	5GG	45,045
16	1355	Rufino Hills Transfer Station	Harris	5RR	213,132
16	2222	Stericycle Inc	Montgomery	5AC	12,207
16	2241	Houston Disposal	Harris	5GG	55,719
16	2318	Don Tol Compost Facility	Wharton	5RC	13,125
16	2319	Texas Sludge Disposal, Inc.	Wharton	5GG	19,241
16	2326	Med-Shred Houston Processing Facility	Harris	5MW	1,040

COG	P/R #	Site Name	County	Type	2009 Tons
16	2350	Big K Environmental	Harris	5GG	118,352
16	40028	Matagorda County Transfer Station	Matagorda	5TS	24,723
16	40056	City of Huntsville Transfer Station	Walker	5TS	38,621
16	40118	Hardy Road Transfer Station	Harris	5TS	108,741
16	40191	Country Waste Inc.	Austin	5TS	6,950
GOLDEN CRECENT REGIONAL PLANNING COMMISSION					
17	2181	Jackson County MSW Transfer Station & Recycling Center	Jackson	5TS	2,991
ALAMO AREA COUNCIL OF GOVERNMENTS					
18	2317	San Antonio Disposal	Bexar	5GG	36,582
18	43011	City of La Coste	Medina	5GG	48,465
SOUTH TEXAS DEVELOPMENT COUNCIL					
COASTAL BEND COUNCIL OF GOVERNMENTS					
20	40002	Live Oak County Transfer Station	Live Oak	5TS	600
LOWER RIO GRAND VALLEY DEVELOPMENT COUNCIL					
21	2334	Med-Shred Harlingen Processing Facility	Cameron	5MW	36
21	2343	Valley De-Watering Services Inc.	Hidalgo	5GG	18,894
21	40110	City of Harlingen Transfer Station	Cameron	5TS	63,046
21	42015	City of Brownsville - Composting Facility	Cameron	5RC	21,569
21	82533	Brush Incinerator Facility	Cameron	5WI	9,884
TEXOMA COUNCIL OF GOVERNMENTS					
22	1136	City of Sherman Transfer	Grayson	5TS	4,321
CENTRAL TEXAS COUNCIL OF GOVERNMENTS					
23	40004	City of Hico Transfer Station	Hamilton	5TS	114
23	40145	City of Copperas Cove Transfer Station Facility	Coryell	5TS	22,564
23	40234	Enserv South Central Transfer Station	Bell	5TS	249
23	43010	S & M Vacuum & Waste Ltd	Bell	5GG	4,213
MIDDLE RIO GRANDE DEVELOPMENT COUNCIL					
24	40034	City of Sabinal	Uvalde	5TS	1,072

References

- ii. Title 30, Texas Administrative Code, Chapter 330, Section 330.5 (b)
- iii. Annual Estimates of the Population for Counties of Texas: April 1, 2000 to July 1, 2009(CO-EST 2009-01-48), release date: March 19, 2009, source: Population Division, U.S. Census Bureau found at <www.census.gov/popest/counties/>
- iv. Texas Health and Safety Code, Section 363.0615